- Tundra, sea, and river hydrotechnical projects, a part of tremendous construction developments in the northern oblasts, require high quality cement.
- 2. The production of Portland cement is rather high at the present time. This is in consequence of the tremendous reserves of high-grade morter available on the shore of the Black Sea in Novorossisk Oblast. The composition of this morter makes it a ready raw material for preparation of Portland cement.
- 3. For almost 30 years, the USSR has been developing successfully the production of varieties of cement other than Portland. These are, slag cement, aluminum silicate cement, and puzzolan cement. Slag cement from basic (non-acid) blast furnace slag has content not exceeding 85%. Aluminum silicate cement has a bauxite base. This has the advantage of reaching considerable hardness in a short time, an important quality considering construction conditions in the north. This quality results from both chemical composition and high temperatures required for burning this cement. Puzzolan cement is produced from Tripoli clay as a base. This is something in the nature of volcanic froth and Caradocian trass /sic/. Much of the slag, aluminum silicate, and puzzolan cement is used for underground and hydrotechnical construction, especially where the purest active water is required.
- there should be 54 cement plants in the USSR today. New factories are being built in the vicinity of industrial centers. All are almost completely mechanized and equipped with modern machinery. They use local fuel and raw materials. Overall production amounts to 46 million barrels and employees number 35,000.

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- 5. Principal production centers of cement (mainly Portland) are Novorossisk, Vol'sk (a town of the Nizhne-Volzhskiy Lower Volga Kray), and Amvrosiyevka (a rayon center in the Donbas). The last named has a railroad station and is located 87 km from Taganrog. Three cement factories operate with 1800 workers in this center. A fourth one is being planned. There also are two ceramic plants operating with an average of 400 workers. Quarries of chalk mortar represent raw material for the silicate industry of this region. An average of 150 workers is employed in producing mortar. At the village of Kuteynikovo there are two brick kilns which service this area.
- 6. The former EMaterinoslav province of the Ukraine has little stone but that which is there is of high quality. There is Volyn' marble and on the right river bank is granite. Ukrainian granite is used for construction purposes in almost the entire USSR. Granite quarries in Ekaterinoslav Oblast' are located as follows: (1) eight quarries at Velyka Mokra; (2) one granite quarry and two sand quarries at the village of Peredatochna [Sic]; (3) granite at Velyka Tomashivka [probably Tomashevka]; (4) high quality granites of various shapes (for the most important construction projects in the entire USSR) at the village of Pidstepna [Sic]; (5) one quarry of high quality granite at the village of Kokolivka [Sic]; (6) one quarry of granite and syenite at the village of Yerastivka [Sic]; (7) one quarry of granite at Svenihorodka [Sic]; (8) kaolin of high quality (under the Soviet regime kaolin is used as ballast for railroads) at Pyatykhatka [probably Pyatikhatki]; (9) one quarry of granite at Savro [Sic]; (10) one quarry of granite at Karystovka [Sic]; (11) sand at the village of Aleksandriya [Sic]; and (12) shell rock in a loose state (used as ballast for the top layer of railways) at the village of Heniches'k [Sic].
- 7. The Donbas region has sand and mortar. Sand deposits are located at the village of Laryno [Sic], the village of Ilarionovo [Sic], and Kakeivka [Sic]. Limestone is lodged in the so-called Yelenovs'kyi [Sid] quarries. Mortar of a rather high quality is located at the village of Yasynuvata [Sic]. Dolomite is obtained in the central part of the Donbas.

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